

1651 #5
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Elizabeth M. Denholm, Elizabeth Cauchon, and Paul J. Silver

Serial No.: 09/727,873

Art Unit: 1651

Filed: December 1, 2000

Examiner: M. Meller

For: *ATTENUATION OF FIBROBLAST PROLIFERATION*

Assistant Commissioner for Patents
Washington, D.C. 20231

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Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including five (5) pages of Form PTO-1449 and a copy of each document cited therein.

Enclosed is a check for \$180.00 representing the fee required under 37 C.F.R. §1.17(p) for an Information Disclosure Statement filed after a first Office Action on the merits under 37 C.F.R. §1.97(c). It is believed that no additional fees are required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any fees to Deposit Account No. 50-1868.

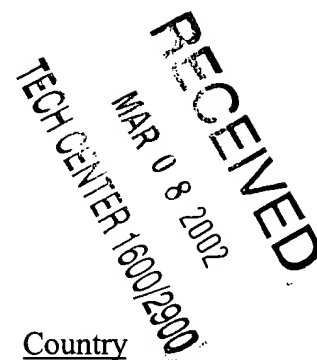
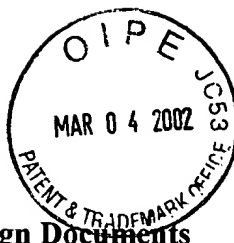
U.S. Patents

<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
5,695,752	12-09-1997	Rosen et al.	424/94.61

03/07/2002 WABDELRI 00000062 09727873

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Foreign Documents

<u>Number</u>	<u>Publication Date</u>	<u>Patentee</u>	<u>Country</u>
WO 98/46258 A2	10-22-1998	Beth Isreal Deaconess Medical Center, Inc.	PCT
WO 99/484778 A1	09-30-1999	Insight Strategy & Marketing Ltd.	PCT
WO 95/13091 A1	05-18-1995	International Technology Management Associates, Ltd.	PCT
WO 96/01894 A1	01-25-1996	Ibex Technologies Research & Development, Inc.	PCT

Publications

BENSADOUN, et al. "Proteoglycan deposition in pulmonary fibrosis," *Amer. J. Respir. Crit. Care Med.* 154:1819-1828 (1996).

DENHOLM, "Inhibition of fibroblast by Chondrotinase AC(CAC) and Chondrotinase B(CB)," *FASEB J* 12(5):A948 (1998).

DENHOLM, et al., "Inhibition of human dermal fibroblast proliferation by removal of dermatan sulfate," *European Journal of Pharmacology* 400:145-153 (2000).

DENHOLM & PHAN, "The effects of bleomycin on alveolar macrophage growth factor secretion," *Amer. J. Pathol.* 134:355-363 (1989).

DONATI, et al., "Treatment of hypertrophic and keloid cicatrices with thiomucase," *Minerva Chirurgica* 30(6):326-33 AN-Medline 76196588 (1975).

FANNON & NUGENT, "Basic fibroblast growth factor binds its receptors, is internalized, and stimulates DNA synthesis in Balb/c3T3 cells in the absence of heparan sulfate," *J. Biol. Chem.* 271:17949-17956 (1996).

FORRESTER, et al., "A paradigm for restenosis based on cell biology: clues for the development of new preventive therapies," *J. Am. Coll. Cardiol.* 17:758-769 (1991).

JACKSON, et. al., "Glycosaminoglycans: molecular properties, protein interactions, and role in physiological processes," *Physiol. Rev.* 71:481-530 (1991).

KELLER, et al., "Modulation of cell surface heparan sulfate structure by growth of cells in the presence of chlorate," *Biochem.* 28:8100-8107 (1989).

KJELLEN & LINDAHL, "Proteoglycans: structures and interactions," *Ann. Rev. Biochem.* 60:443-475 (1991).

- LINHARDT, et al., "Polysaccharide lyases," *Appl. Biochem. Biotech.* 12:135-175 (1986).
- LINN, et al. "Isolation and characterization of two chondroitin lyases from *Bacteroides thetaiotaomicron*," *J. Bacteriol.* 156:859-866 (1983).
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- MICHELACCI, et. al., "Isolation and characterization of an induced chondroitinase ABC from *Flavobacterium heparinum*," *Biochim. Biophys. Acta.* 923:291-201 (1987).
- MILEV, et al., "The core protein of the chondroitin sulfate proteoglycan phosphacan is a high-affinity ligand of fibroblast growth factor-2 and potentiates its mitogenic activity," *J. Biol. Chem.* 273:21439-21442 (1998).
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- PHAN & KUNKEL, "Lung cytokine production in bleomycin-induced pulmonary fibrosis," *Exper. Lung Res.* 18:29-43 (1992).
- RICHARDSON & HATTON, "Transient morphological and biochemical alterations of arterial proteoglycan during early wound healing," *Exp. Mol. Pathol.* 58:77-95 (1993).
- SATO, et. al., "Submit structure of Chondroitinase ABC from *Proteus vulgaris*," *Agric. Biol. Chem.* 50:1057-1059 (1986).
- SCHMIDT, et al., "The antiproliferative activity of arterial heparan sulfate resides in domains enriched with 2-O-sulfated uronic acid residues," *J. Biol. Chem.* 267:19242-19247 (1992).
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SEGARINI, et al., "Binding of transforming growth factor-beta to cell surface proteins varies with cell type," *Molecular Endocrinol.* 3:261-272 (1989).

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YAMAGATA, et al., "Purification and properties of bacterial chondroitinases and chondrosulfatases," *J. Biol. Chem.* 243:1523-1535 (1968).

YAYON, et al., "Cell surface, heparin-like molecules are required for binding of basic fibroblast growth factor to its high affinity receptor," *Cell* 64:841-848 (1991).

YEO, et al. Alterations in proteoglycan synthesis common to healing wounds and tumors," *Amer. J. Pathol.* 138:1437-1450 (1991).

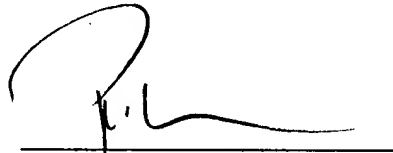
ZHANG, et. al., "In situ hybridization analysis of rat lung alpha 1(I) and alpha 2(I) collagen gene expression in pulmonary fibrosis induced by endotracheal bleomycin injection," *Lab. Invest.* 70: 192-202 (1994).

U.S.S.N.: 09/727,873
Filed: December 1, 2000
INFORMATION DISCLOSURE STATEMENT

Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



Patrea L. Pabst
Reg. No. 31,284

Dated: February 7, 2002

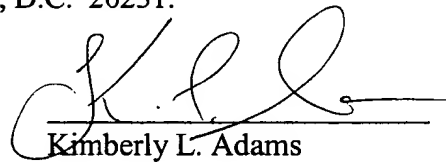
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Filed: December 1, 2000
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/727,873
Filing Date	December 1, 2000
First Named Inventor	Elizabeth M. Denholm
Group Art Unit	1651
Examiner Name	M. Meller
Attorney Docket Number	IT 105

Sheet 1 of 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,695,752		Rosen et al.	12-09-1997	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office. ³	Number ⁴	Kind Code ⁵ (if known)				
		WO	98/46258	A2	Beth Isreal Deaconess Medical Center, Inc.	10-22-1998		
		WO	99/484778	A1	Insight Strategy & Marketing Ltd.	09-30-1999		
		WO	95/13091	A1	International Technology Management Associates, Ltd.	05-18-1995		
		WO	96/01894	A1	Ibex Technologies Research & Development, Inc.	01-25-1996		

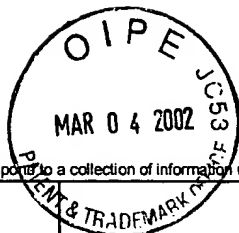
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/727,873
				Filing Date	December 1, 2000
				First Named Inventor	Elizabeth M. Denholm
				Group Art Unit	1651
				Examiner Name	M. Meller
Sheet	2	of	5	Attorney Docket Number	IT 105

OTHER ART – NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		BENSADOUN, et al. "Proteoglycan deposition in pulmonary fibrosis," <i>Amer. J. Respir. Crit. Care Med.</i> 154:1819-1828 (1996).	✓
		DENHOLM & PHAN, "The effects of bleomycin on alveolar macrophage growth factor secretion," <i>Amer. J. Pathol.</i> 134:355-363 (1989).	✓
		DENHOLM, "Inhibition of fibroblast by Chondroitinase AC(CAC) and Chondroitinase B(CB)," <i>FASEB J</i> 12(5):A948 1998).	✓
		DENHOLM, et al., "Inhibition of human dermal fibroblast proliferation by removal of dermatan sulfate," <i>European Journal of Pharmacology</i> 400:145-153 (2000).	✓
		DONATI, et al., "Treatment of hypertrophic and keloid cicatrices with thiomucase," <i>Minerva Chirurgica</i> 30(6):326-33 AN-Medline 76196588 (1975).	✓
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		JACKSON, et al., "Glycosaminoglycans: molecular properties, protein interactions, and role in physiological processes," <i>Physiol. Rev.</i> 71:481-530 (1991).	✓
		KELLER, et al., "Modulation of cell surface heparan sulfate structure by growth of cells in the presence of chlorate," <i>Biochem.</i> 28:8100-8107 (1989).	✓
		KJELLEN & LINDAHL, "Proteoglycans: structures and interactions," <i>Ann. Rev. Biochem.</i> 60:443-475 (1991).	✓

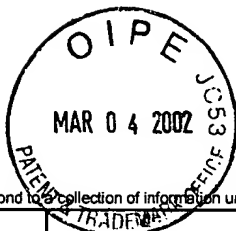
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		LINHARDT, et al., "Polysaccharide lyases," <i>Appl. Biochem. Biotech.</i> 12:135-175 (1986).	✓
		LINN, et al. "Isolation and characterization of two chondroitin lyases from <i>Bacteroides thetaiotaomicron</i> ," <i>J. Bacteriol.</i> 156:859-866 (1983).	✓
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		LYON, et al., "Hepatocyte growth factor/scatter factor binds with high affinity to dermatan sulfate," <i>J. Biol. Chem.</i> 273:271-278 (1998).	✓
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		MICHELACCI, et. al., "Isolation and characterization of an induced chondroitinase ABC from <i>Flavobacterium heparinum</i> ," <i>Biochim. Biophys. Acta.</i> 923:291-201 (1987).	
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		TAO, et. al., "Elevated expression of proteoglycans in proliferating vascular smooth muscle cells," <i>Atherosclerosis</i> 135:171-179 (1997).	
		VARANI, et al., "Expression of serine proteinases and metalloproteinases in organ-cultured human skin. Altered levels in the presence of retinoic acid and possible relationship to retinoid-induced loss of epidermal cohesion," <i>Amer. J. Pathol.</i> 145:561-573 (1994).	
		VLODAVSKY, et al., "Control of cell proliferation by heparan sulfate and heparin-binding growth factors," <i>Thrombosis Haemostasis</i> 74:534-540 (1995).	

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Application Number

Filing Date

First Named Inventor

Group Art Unit

Examiner Name

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09/72,873

December 1, 2000

Elizabeth M. Denholm

1651

M. Meller

IT 105

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OTHER ART - NON PATENT LITERATURE DOCUMENTS

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		YAMAGATA, et al., "Purification and properties of bacterial chondroitinases and chondrosulfatases," <i>J. Biol. Chem.</i> 243:1523-1535 (1968).	
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